A Proposal for Global R&D Collaboration on Nb surfaces, Films and New Materials for SRF Cavities

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Background

- To our knowledge, there is no single place online for discussions focusing on these issues. (There are some individual collaboration web pages, but not disseminated to larger audience.)
- Now that the ILC will use SRF technology, successful and timely R&Ds will significantly benefit the ILC project in addition to other projects that will use SRF.

Goals

- Expedite the R&Ds that will have significant impact on the SRF technology.
- Involve more academic institutes such as universities
- Improve communications among worldwide researchers working on these topics
- Increase funds invested on these R&Ds
- Generate useful outcomes in a timely manner

How do we achieve the goals?

- Through a dedicated web site and frequent electronic newsletters, bring new participants up to speed quickly
- By rapidly disseminating new R&D results, encourage participants to discuss and/or cross check them, and eliminate redundant R&Ds.
- Organize meetings, video conferences and topical workshops for in-depth discussions.

Proposed structure of this global collaboration

- Board: Collects funds, make decisions on their distribution. This consists of SRF community leaders and people who are well connected to potential funding sources.
- Coordination Committee (CC): Administrative arm of the Board, i.e., make proposals, manage funds, organize meetings, etc., tentatively we, Pierre, Tsuyoshi and Anne-Marie will serve as this, but as things move forward, more people will need to be added from different regions.

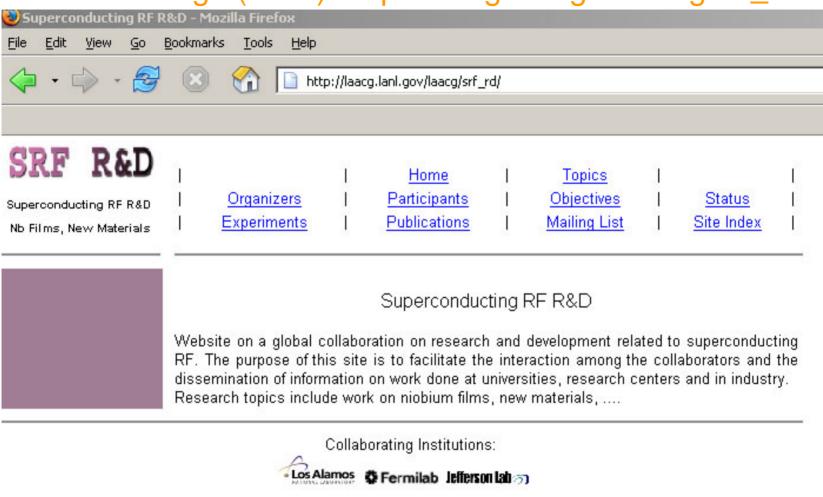
Coordination Committee (CC)

- We divided our responsibilities into 3 regions
 - Pierre Bauer: USA
 - Tsuyoshi Tajima: Asia/Pacific
 - Anne-Marie Valente: Europe
- The person in charge of each region will contact people from corresponding region
- We will start monthly video meetings from December 2004.

CC current activities

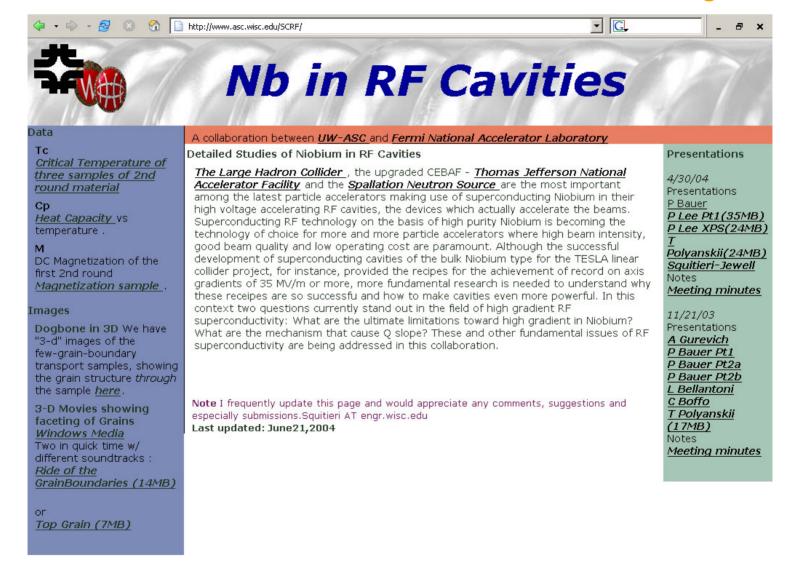
- Disseminating the idea of this collaboration and asking people who may get interested
- Creating a web site
- Creating a generic Memorandum of Understanding (MoU) for individual collaborations
- Making emailing lists for general and individual R&D participants

Web Page (Draft): http://laacg.lanl.gov/laacg/srf_rd/



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An example of high quality collaboration FNAL and U. Wisconsin Collaboration Web Page



What about other R&Ds?

- Tsuyoshi's personal opinion
 - Better to be included in one web site, but needs more volunteers who will be in charge of those topics, e.g., industrialization, Nb/Cu clad cavities, material control, etc.

You will be asked soon via email whether you want to participate in this or not, if you want to volunteer to be in the Coordination Committee or the Board.